Auxbeam AR-820

Auxbeam RGB Bluetooth 8 Gang Switch Panel AR-820 Instruction Manual

Model: AR-820

1. Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Auxbeam RGB Bluetooth 8 Gang Switch Panel AR-820. This system is designed to simplify the control of auxiliary electrical devices in vehicles such as trucks, UTVs, off-road vehicles, and boats.
The AR-820 features an 8-gang switch panel with dual-sided output, Bluetooth control via a dedicated app, customizable RGB backlighting, and three distinct lighting modes. It incorporates a solid-state relay system for enhanced safety and reliability.

2. Safety Information

- Always disconnect the vehicle's battery before performing any electrical installation or maintenance to prevent electrical shock or damage.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not exceed the maximum wattage (1400W) or current rating (60 Amps) of the switch panel.
- Verify that the operating voltage of your vehicle (12-24V DC) is compatible with the switch panel.
- Install the control box in a location protected from excessive heat and physical damage.
- Consult a professional if you are unsure about any part of the installation process.

3. Package Contents

Verify that all items listed below are included in your package:

- 1 x AR-820 Switch Panel
- 1 x Circuit Control Box
- 1 x Circuit Breaker
- 60 x Labels (stickers)

- 1 x 10ft Wire Harness
- Mounting Brackets
- Power Harness, Fuse Wire & Adapter, Installation Kit
- Panel Waterproof Cover



This image details the key features of the AR-820 switch panel, including button indicators and dimensions, alongside a comprehensive list of all items included in the package, such as the switch panel, control box, wiring harness, and mounting brackets.

4. Setup and Installation

4.1 Wiring Overview

The Auxbeam AR-820 features a dual-sided output design for the circuit control box, which helps in organizing wiring and simplifying installation. Each of the 8 circuits has a designated fuse and output terminal.



Detailed view of the AR-820 control box highlighting its dual-sided output design for efficient wiring, featuring a built-in solid-state relay and

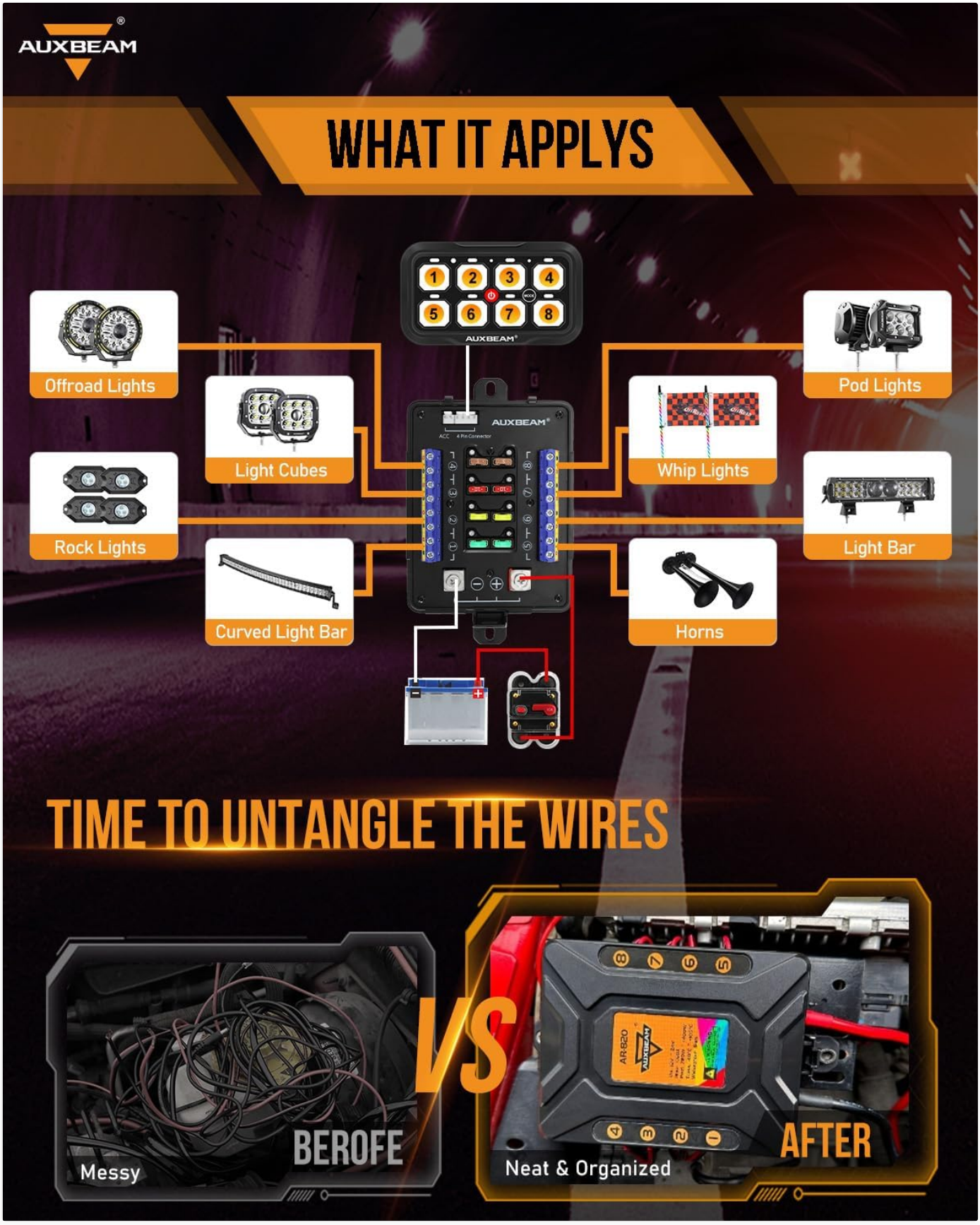
system failure indicator.



This image provides a close-up of the AR-820 circuit control box, illustrating its two-sided output design and the individual fuse ratings for each of the eight circuits.

4.2 Installation Steps

1. **Mount the Control Box:** Choose a suitable location in your vehicle's engine bay for the circuit control box. Ensure it is secure and accessible for wiring.
2. **Connect Power:** Connect the main positive (+) wire from the control box to your vehicle's battery positive terminal, and the negative (-) wire to the battery negative terminal or a suitable ground point.
3. **Connect ACC Fuse:** The red ACC Fuse wire should be connected to a fuse adapter. Identify an ACC (Accessory) fuse in your vehicle's fuse box that is powered when the ignition is on. Remove the original ACC fuse, insert the fuse adapter, and then reinsert the entire fuse adapter into the original ACC fuse position. This ensures the switch panel operates with the vehicle's ignition.
4. **Mount the Switch Panel:** Select a convenient location inside your vehicle for the switch panel, such as the dashboard or console. Use the provided mounting brackets to secure it.
5. **Connect Switch Panel to Control Box:** Connect the 10ft wire harness from the switch panel to the circuit control box.
6. **Wire Auxiliary Devices:** Connect the positive wires of your auxiliary lights or devices to the corresponding output terminals (1-8) on the circuit control box. Connect the negative wires of your devices to a common ground point.
7. **Apply Labels:** Use the provided 60pcs of labels to clearly identify each switch function on the panel.



A visual representation of how different auxiliary devices, such as off-road lights, light cubes, rock lights, whip lights, and horns, can be connected and controlled by the AR-820 system.

5. Operating Instructions

5.1 Basic Operation

- **Power ON/OFF:** Press the central ON/OFF button on the switch panel to activate or deactivate all connected

accessories. This button also features a memory function, retaining the last active settings when the car is started the next day.

- **Individual Switch Control:** Press any of the 8 individual buttons to turn the corresponding connected device ON or OFF.
- **Mode Button:** Use the 'MODE' button to cycle through the different lighting modes for the selected switch.

Before and after comparison illustrating the memory function of the AR-820 switch panel, which retains the last active settings when the power is restored.

5.2 Lighting Modes

Each of the 8 channels can be programmed to one of three distinct lighting modes:

- **Toggle Mode (Red Indicator):** Provides steady, continuous lighting for long-term use.
- **Momentary Mode (Blue Indicator):** Activates the device only while the button is pressed, similar to a horn.
- **Pulsed Mode (Green Indicator):** Creates a strobe effect with adjustable frequency.



Illustration of the three distinct lighting modes available: Toggle for constant light, Momentary for temporary activation like a horn, and Pulsed for strobe effects, all synchronized with the control app.

5.3 Bluetooth App Control

The Auxbeam AR-820 can be controlled and customized via a dedicated smartphone application.



An illustration of the Bluetooth application interface, allowing convenient control of connected devices, shown in the context of a marine application.

5.3.1 Connecting via Bluetooth

1. Download the Auxbeam app from your smartphone's app store.
2. Open the Auxbeam app and tap the Bluetooth icon in the top left corner.
3. Turn on Bluetooth on your phone and select the corresponding panel group within the app.

4. On the "Bluetooth is searching" screen, find the matching auxiliary switch panel number (each panel has a unique identifier).
5. Once the panel number appears and "Connected" pops up, your phone is successfully paired with the LED switch panel.



A four-step visual guide demonstrating how to establish a Bluetooth connection between your smartphone and the AR-820 switch panel using the dedicated Auxbeam application.

5.3.2 App Features

- Adjust brightness of the switch panel.
- Toggle lights ON/OFF remotely.
- Program over 200 icons for switch customization.
- Fine-tune brightness levels (0-100%) and choose from unlimited RGB colors for backlighting.

5.4 Smart Backlight Adjustment

The switch panel offers three modes for backlight brightness:

- **Auto-Dimming:** An ambient light sensor automatically adjusts brightness for day or night conditions.
- **Manual Off:** Instantly disable the backlight with one press to avoid glare during night driving or to conserve power.
- **App Customization:** Adjust brightness levels (0-100%) and RGB colors via the Bluetooth app.



This graphic illustrates the three methods for adjusting the switch panel's backlight brightness: via the mobile application, manual on/off control, and an automatic sensing feature that adapts to ambient light.

6. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the switch panel and control box. Avoid abrasive cleaners or solvents that could damage the surfaces.

- **Inspection:** Periodically check all wiring connections for tightness and signs of wear or corrosion.
- **Fuse Replacement:** The control box contains fuses for each circuit. If a device stops working, check the corresponding fuse. Replace blown fuses with ones of the same amperage rating. The product comes with extra fuses.
- **Waterproof Cover:** Utilize the provided panel waterproof cover to protect the switch panel in harsh environments. The control box itself has an IP65 waterproof rating.



This graphic compares the advantages of the AR-820's built-in solid-state relays over traditional external relays, emphasizing features like no touch points, faster response time, and IP65 waterproof protection.

7. Troubleshooting

- **Device Not Working:**
  - Check the wiring connections for the specific device and ensure they are secure.
  - Verify the corresponding fuse in the control box is not blown. Replace if necessary.
  - Ensure the main power to the control box is connected and the vehicle's ignition is on if using the ACC connection.
- **Switch Panel Not Powering On:**
  - Check the main power connections to the battery.
  - Ensure the ACC fuse is properly installed and receiving power when the ignition is on.
- **Bluetooth Connection Issues:**
  - Ensure Bluetooth is enabled on your smartphone.
  - Restart the Auxbeam app and try reconnecting.
  - Verify the switch panel is powered on.
  - If issues persist, try resetting the switch panel to factory settings by long-pressing the ON/OFF button for 12 seconds.
- **Switch Panel Works When Vehicle is Off:**
  - If you desire the switch panel to remain powered when the vehicle is off, connect the red ACC wire directly to the battery. Note: This is not recommended for extended periods as it can drain the battery.
- **Multiple Lights on One Button:**
  - To control two or more lights with one button, connect the positive wires of all desired work lights into the same '+' hole of the circuit control box, and their negative poles to a common ground.
- **Accessories Not Restored After Power Cycle:**
  - The system is designed to require a press of the ON/OFF button to restore accessories after a power cycle (e.g., turning off the car). This ensures sufficient battery power for starting the vehicle.

- **Need Extension Cable for Wiring:**
  - A 10ft 4-PIN extension cable is included. If additional length is required, an extension wire for the 8 gang switch panel can be found using ASIN: B093293RJ7.
- **Need More Stickers:**
  - Additional stickers for the RA80 XL switch panel can be found using ASIN: B0C13FPNP1.

8. Specifications

Feature	Specification
Operation Mode	ON-NONE-OFF
Current Rating	60 Amps
Operating Voltage	12-24 Volts DC
Contact Type	Normally Open
Connector Type	Plug In
Terminal	Spade
Item Dimensions (L x W x H)	4.55 x 2.6 x 1 inches
Circuit Type	8-way
Actuator Type	Touch
Contact Material	Aluminum
International Protection Rating	IP65
Upper Temperature Rating	221 Degrees Fahrenheit (105°C)
Lower Temperature Rating	-40 Degrees Fahrenheit (-40°C)
Controller Type	Push Button
Control Method	App, Touch
Maximum Power	1400 Watts
Item Weight	5.39 pounds

9. Warranty Information

The Auxbeam RGB Bluetooth 8 Gang Switch Panel AR-820 is backed by a **2-Year Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

10. Customer Support

For further assistance, technical support, or warranty inquiries, please visit the official Auxbeam website or contact Auxbeam customer service through the platform where you purchased the product.
You can also visit the Auxbeam Store on Amazon: Auxbeam Store

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