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› Auxbeam RGB 6 Gang Switch Panel RA60 Instruction Manual

Auxbeam RA60

Auxbeam RGB 6 Gang Switch Panel RA60 Instruction Manual

Model: RA60

1. PRODUCT OVERVIEW

The Auxbeam RA60 RGB 6 Gang Switch Panel is designed to control up to six auxiliary LED lights or electrical devices in 12-24V vehicles. It features customizable RGB backlighting, auto-dimming, and three distinct lighting modes: Toggle, Momentary, and Pulsed. The system includes a robust control box with built-in solid-state relays and comprehensive safety protections, ensuring reliable operation and a clean wiring solution for various automotive applications.



Image 1.1: Auxbeam RA60 RGB 6 Gang Switch Panel and Control Box.

2. PACKAGE CONTENTS

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



Image 2.1: All components included in the Auxbeam RA60 package.

- RA60 Switch Panel
- Circuit Control Box
- Circuit Breaker
- Mounting Brackets
- 10ft Wire Harness
- Power Harness, Fuse Wire & Adapter, Installation Kit
- 60pcs Labels (Decals)
- Instruction Manual
- Waterproof Cover
- Double-sided Tape
- Screwdriver
- Screws
- Fuse Extender

3. INSTALLATION GUIDE

Proper installation is crucial for optimal performance and safety. Follow these steps carefully.

3.1 Mounting the Switch Panel

The switch panel can be mounted using either an angle-adjustable mount or a slim-line flush mount, depending on your vehicle's interior and preference.



Image 3.1: Mounting options for the Auxbeam RA60 Switch Panel.

3.2 Wiring the Control Box

The control box should be securely mounted in the engine bay. Connect the power and ground wires to your vehicle's battery, and then connect the output wires to your auxiliary devices. Ensure all connections are tight and properly insulated.



UPGRADED CONTROL BOX

Experience flexible installation



1-Sided Outlet Design



Built-in Solid State Relay



Spare Fuses



Labeled Outputs & Malfunction Indicator Light



Image 3.2: Upgraded control box with built-in solid state relay and spare fuses.

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Video 3.1: Overview and installation demonstration of the Auxbeam RA60 RGB 6 Gang Switch Panel.

4. OPERATING INSTRUCTIONS

4.1 RGB Backlight and Auto-Dimming

The RA60 switch panel features customizable RGB backlighting and an auto-dimming function. The backlight brightness adjusts automatically based on ambient light conditions, brightening in daylight and dimming at night to reduce eye strain.

- **Changing Backlight Color:** Press the "MODE" button and any switch button simultaneously. Long press Switch 1 or Switch 4 to cycle through RGB colors. Press the "MODE" button again to save your selection.
- **One-Touch Backlight OFF:** Press the "MODE" button once to quickly deactivate the backlight.



Image 4.1: Auto-dimmable backlight function and one-touch backlight off.

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Video 4.1: Demonstration of managing lights and setting up RGB backlights with the Auxbeam RA60.

4.2 Lighting Modes (Toggle, Momentary, Pulsed)

Each of the six switches can be configured with one of three lighting modes:

- **TOGGLE:** Device remains ON after a single press. Press once to activate, press again to deactivate.
- **MOMENTARY:** Device is active only while the button is pressed and held. Release the button to deactivate.
- **PULSED (Strobe):** Device activates in a strobe pattern. Press three times to activate.



Image 4.2: Explanation of Toggle, Momentary, and Pulsed lighting modes.

4.3 Memory Function

The "ON/OFF" button on the RA60 switch panel also serves as a memory function. When pressed, the switch panel will automatically restore the light settings from before it was last turned off, providing convenience and personalization.

5. SAFETY FEATURES

The Auxbeam RA60 is designed with multiple safety features to protect your vehicle's electrical system and the device itself.

- **Built-in Solid State Relays:** The control box features integrated solid-state relays for reliable and efficient power distribution.
- **Resettable Circuit Breaker:** A high-quality resettable circuit breaker is included, offering protection against reverse polarity, overcurrent, overvoltage, and overheating.
- **Silicone Protective Cover:** A silicone cover is provided to safeguard the switch panel from water damage, dust, and other environmental elements, ensuring functionality in various conditions.



Images 5.1, 5.2, 5.3: Silicone cover, 60A circuit breaker, and built-in solid state relay for enhanced safety.

6. UNIVERSAL APPLICATION

The 6-gang RA60 switch panel is universally compatible with all 12-24V vehicles, making it suitable for a wide range of applications.



Image 6.1: The Auxbeam RA60 is compatible with a wide range of 12-24V vehicles.

- Cars
- Trucks
- Off-road vehicles
- Boats
- SUVs

- Pickups
- RVs
- UTVs

7. WIRING METHOD

The following diagram illustrates the general wiring method for the Auxbeam RA60 switch panel. Always refer to your vehicle's specific wiring diagrams and consult a professional if unsure.



Image 7.1: Basic wiring diagram for the Auxbeam RA60.

1. Connect the ACC wire to the cigarette lighter or radio fuse to get power.
2. Connect the main power and ground wires from the control box to the vehicle battery.
3. Connect your auxiliary devices to the corresponding output connections on the control box (Circuits 1-6).
4. Note: When an LED is red, the corresponding fuse is bad and needs replacement.

8. TROUBLESHOOTING

If you encounter issues with your Auxbeam RA60 switch panel, consider the following common solutions:

- **Device Not Powering On:**
 - Check the main power connection to the battery.
 - Verify the circuit breaker is not tripped.
 - Ensure the ACC wire is properly connected and receiving power.
- **Individual Light/Accessory Not Working:**
 - Check the specific output connection for the device on the control box.
 - Inspect the fuse for that circuit; a red LED indicates a blown fuse. Replace with a fuse of the correct amperage.
 - Ensure the device itself is properly wired and functional.
- **Backlight Not Changing Color/Turning Off:**
 - Follow the instructions in Section 4.1 for changing colors and turning off the backlight.
 - Ensure the "MODE" button is functioning correctly.

9. SPECIFICATIONS

Feature	Specification
Operation Mode	Manual
Current Rating	60 Amps
Operating Voltage	12-24 Volts (DC)
Contact Type	Normally Open
Connector Type	Plug In
Terminal	Blade
Item Dimensions (L x W x H)	13 x 8.66 x 4.33 inches
Circuit Type	6-way
Mounting Type	Panel Mount
Actuator Type	Push Button
Contact Material	Aluminum
International Protection Rating	IP65
Upper Temperature Rating	221 Degrees Fahrenheit (105°C)
Control Method	Touch
Color	RGB
Wattage	1400 watts (at 24V) / 720 watts (at 12V)
Item Weight	5.08 pounds

10. WARRANTY AND SUPPORT

The Auxbeam RA60 RGB 6 Gang Switch Panel is backed by a **2-year protection** from Auxbeam, ensuring peace of mind and product reliability.

For technical support, warranty claims, or any inquiries, please refer to the contact information provided in your product packaging or visit the official Auxbeam website.



EXTENDED ASSURANCE

2-year peace of mind coverage

WARRANTY



2-YEAR

Max Current	60A
Voltage	DC 12~24V
Rated Voltage	12V 20A / 24V 10A
Max Rated Power	720W (AT 12V) / 1400W (AT 24V)
Waterproof Rating	IP65
Operating Temp	-40°C~105°C / -40°F~221°F
Switch Panel Size	2.6" X 3.7"
Control Box Size	6" X 4.7"

Image 10.1: Auxbeam RA60 2-year warranty information.

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.

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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.

Submit question