Auxbeam C20H4

Auxbeam 2025 C20 Series H4 Light Canbus Decoder User Manual

Model: C20H4 | Brand: Auxbeam

1. Introduction

This manual provides essential information for the installation, operation, and troubleshooting of your Auxbeam 2025 C20 Series H4 Light Canbus Error Free Anti Flickering Resistor Decoder. This product is designed to enhance the performance of LED headlight bulbs by resolving common electrical issues in modern vehicles. Please read this manual thoroughly before installation to ensure proper function and safety.

2. Product Features

- **Canbus Socket Type:** Specifically designed to adapt to higher power and current H4/9003 light bulbs.
- **Enhanced CANBUS Decoder:** Features a built-in intelligent IC system for improved compatibility with modern vehicle computer systems.
- **Super Decoding Performance:** Engineered to address and resolve common issues such as dashboard warnings, flickering or hyper flash problems, radio interference, and error codes associated with LED bulb installations.
- **Water Resistant Design:** Constructed to withstand various environmental conditions, offering protection against water, snow, and dust.



Image 2.1: Internal view of the intelligent decoder circuit board, highlighting components designed to fix electrical issues.



Image 2.2: The Auxbeam Canbus decoder shown with water droplets, demonstrating its water-resistant construction for durability in various weather conditions.

3. Specifications

Parameter	Value

Parameter	Value
Model	C20H4
Socket Type	H4/9003
Maximum Load	60W, 5A
Operating Voltage	DC 12V-16V
Current	5A/13.5V
Power	12W/13.5V
Operating Temperature	-40°C ~ +85°C
Item Weight	1.03 pounds (approx.)
Package Dimensions	5.59 x 4.25 x 2.52 inches (approx.)



Image 3.1: A visual representation of the Auxbeam C20H4 decoder with its dimensions and key electrical specifications.

4. Installation Guide

The Auxbeam C20 Series Canbus Decoder is designed for direct plug-and-play installation. Follow these steps for proper setup:

1. **Identify Bulb Type:** Before installation, verify your vehicle's original bulb type. This decoder is specifically for

H4/9003 applications.

2. **Connect to LED Light:** Connect the female socket of the Canbus decoder to your LED headlight bulb. Ensure a secure connection.
3. **Connect to Vehicle Socket:** Connect the other terminal of the Canbus decoder to your vehicle's original headlight socket. Pay close attention to positive and negative wiring to ensure correct polarity.
4. **Test Functionality:** After connecting, turn on your vehicle's headlights to test for proper operation.
5. **Troubleshooting Polarity (if needed):** If the LED bulbs do not function correctly (e.g., no light, flickering), disconnect the Canbus connector from the vehicle socket, reverse it 180 degrees, and reconnect. This can resolve polarity-related issues.

Important Notes:

- This decoder is not compatible with HID bulbs.
- Ensure all connections are firm and secure to prevent intermittent issues.

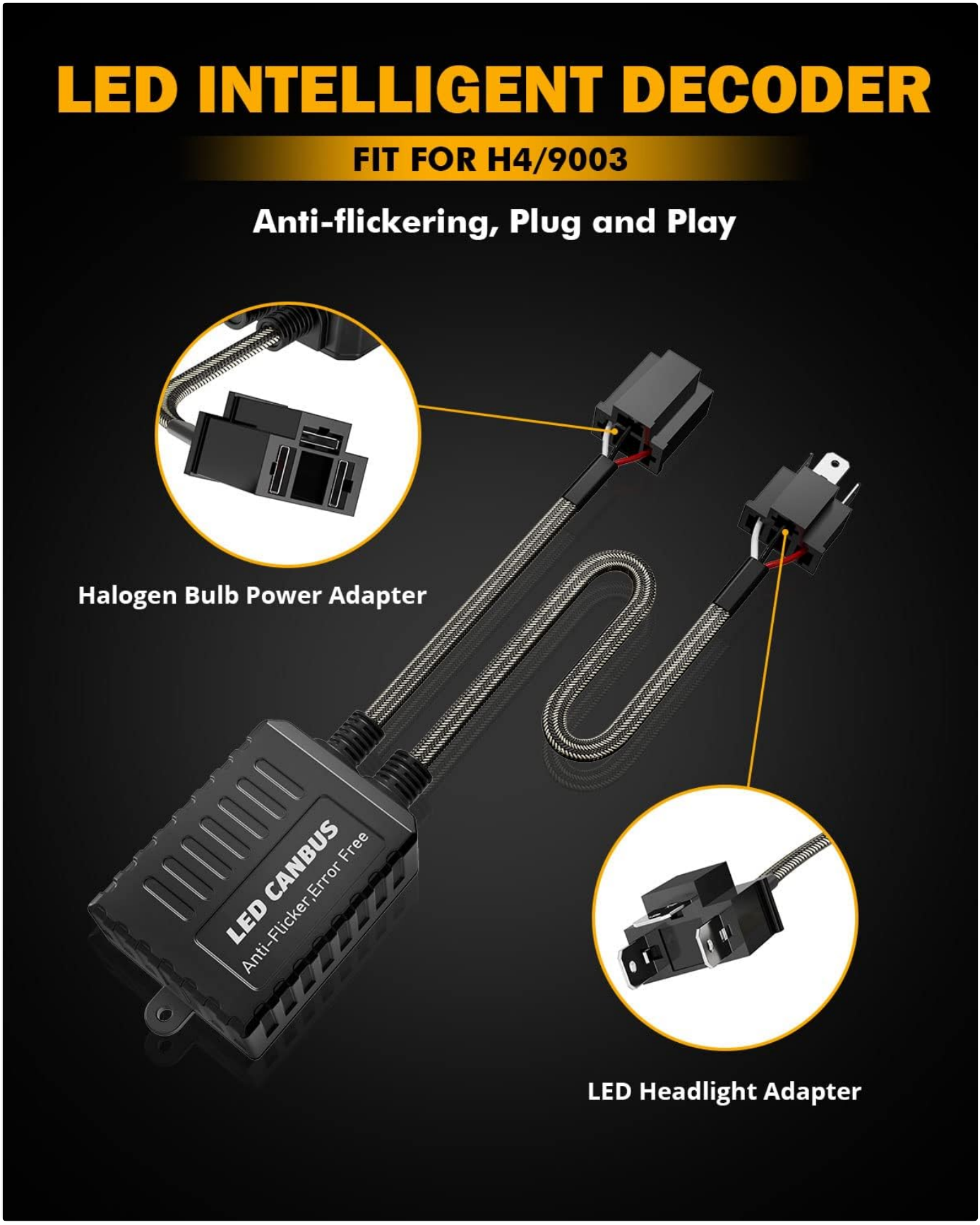


Image 4.1: Connection diagram showing how to integrate the LED intelligent decoder with an H4/9003 bulb and the vehicle's wiring.



Image 4.2: A flowchart illustrating the simple plug-and-play installation process, including steps for checking bulb type and connecting the decoder.

5. Operating Instructions

Once correctly installed, the Auxbeam Canbus Decoder operates automatically. It functions by integrating with your vehicle's electrical system to manage the power delivery to your LED bulbs and communicate with the vehicle's onboard computer (CANBUS system). No manual operation is required after installation.

The decoder's primary function is to:

- Prevent dashboard error messages related to LED bulb installation.
- Stabilize power to eliminate flickering or hyper flash of LED lights.
- Reduce or eliminate radio interference caused by LED lighting.

6. Troubleshooting

If you encounter issues after installing the Auxbeam Canbus Decoder, refer to the following common problems and solutions:

Common Issues and Solutions:

- **LED Bulbs Not Lighting Up or Flickering:**
  Solution: Ensure all connections are secure. If the issue persists, try reversing the Canbus connector 180 degrees at the vehicle socket. Incorrect polarity is a common cause for this problem.
- **Dashboard Error Messages Persist:**
  Solution: Double-check that the correct decoder type (H4/9003) was installed for your vehicle's bulb type. Verify all connections are firm. In some complex vehicle systems, additional diagnostics may be required.
- **Radio Interference:**
  Solution: The decoder is designed to minimize radio interference. If interference occurs, ensure the decoder and wiring are not in direct contact with sensitive radio components or antennas.

Due to the varying complexity of vehicle electrical systems and decoding requirements, it is not always possible to guarantee compatibility with every vehicle. If the above solutions do not resolve your issue, please contact Auxbeam customer support for further assistance.

7. Maintenance

The Auxbeam C20 Series Canbus Decoder is designed for durability and requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Regular Inspection:** Periodically inspect the decoder and its connections for any signs of wear, damage, or loose wiring.
- **Cleaning:** If necessary, gently wipe the exterior of the decoder with a dry, soft cloth to remove dust or debris. Avoid using harsh chemicals or abrasive materials.
- **Environmental Protection:** While the decoder features a water-resistant design, avoid prolonged exposure to extreme moisture or submersion. Ensure it is installed in a location that minimizes direct exposure to harsh elements where possible.

8. Warranty and Support

Auxbeam is committed to providing high-quality products. This product is subject to a return policy of 30 days from the date of purchase, allowing for refunds or replacements in case of defects or dissatisfaction.
For any questions, technical support, or warranty claims, please contact Auxbeam customer service. Our support team is available to assist you with installation, troubleshooting, and product-related inquiries.
You can typically find contact information on the official Auxbeam website or through your purchase platform.

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