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AIB2C 252069100102

AIB2C 252069100102 Glow Plug Screen and Tool Instruction Manual

For Eberspacher Airtronic D2, D4, and D4S Heaters

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the AIB2C 252069100102 Glow Plug Screen and its accompanying tool. This product is designed as an aftermarket replacement component for Eberspacher Airtronic D2, D4, and D4S diesel heaters. Adherence to these instructions will help ensure optimal performance and longevity of your heater system.

2. Product Overview

The AIB2C 252069100102 Glow Plug Screen is a high-quality aftermarket component engineered to meet OEM specifications. It is crucial for the efficient operation of your Eberspacher diesel heater by ensuring proper fuel atomization and combustion. The kit includes a specialized tool for correct insertion into the burner.

Key Features:

- Aftermarket Heater Glow Pin Strainer Screen
- Includes special tool for insertion into burner
- High Quality Burner Screen, to Ensure High Performance
- Manufactured According to OEM Specifications
- Durable, Good Reliability and Longevity

3. Package Contents

Verify that all components listed below are present and undamaged upon opening the package:

- 1x Glow Plug Screen (Part No. 252069100102)
- 1x Specialized Insertion Tool



Figure 1: AIB2C Glow Plug Screen and specialized insertion tool.



Figure 2: Close-up view of the glow plug screen, highlighting its mesh construction.

4. Specifications

Specification	Value
Manufacturer	AIB2C
Item Model Number	252069100102
Item Weight	0.493 ounces
Product Dimensions	4.72 x 6.69 x 0.79 inches

5. Setup and Installation

Safety Warning: Always ensure the heater is completely powered off and cooled down before attempting any installation or maintenance. Disconnect the battery to prevent accidental startup. If you are unsure about any step, consult a qualified technician.

Installation Steps:

1. **Access the Heater Burner:** Carefully disassemble the heater unit to gain access to the burner assembly where the glow plug is located. Refer to your specific Eberspacher heater's service manual for detailed disassembly instructions.
2. **Remove Old Glow Plug Screen:** The old glow plug screen is typically located within the burner tube, surrounding the glow pin. Use appropriate tools to carefully extract the old screen. It may be brittle or corroded.
3. **Clean the Burner Area:** Thoroughly clean any carbon deposits or debris from the burner tube and around the glow plug area. This is critical for optimal performance of the new screen.
4. **Insert New Glow Plug Screen:** Place the new AIB2C 252069100102 glow plug screen into the specialized insertion tool. Carefully guide the tool and screen into the burner tube, ensuring the screen is seated correctly around the glow pin. The tool helps prevent damage to the delicate mesh during insertion.
5. **Reassemble Heater:** Once the new screen is securely in place, reassemble the heater unit by reversing the disassembly steps. Ensure all connections are secure and gaskets (if replaced) are properly seated.
6. **Test Heater:** After reassembly, reconnect the battery and perform a test run of the heater to confirm proper operation and check for any issues.

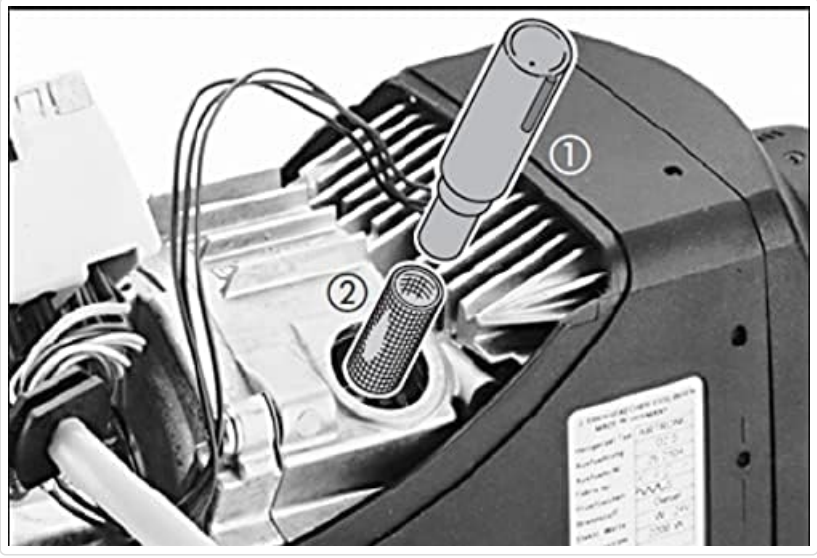

Figure 3: Diagram illustrating the insertion of the glow plug screen (2) into the heater burner using the specialized tool (1).

Related Installation Videos:

▶ **Watch video online**
Heater Glow Plug Repair Kit and Fuel Metering Pump Heater

Video 1: This video demonstrates the components of a heater glow plug repair kit, including a glow plug, gaskets, and tools. While this product specifically includes the screen and tool, this video provides general context for glow plug system maintenance.

▶ **Watch video online**
Niutudza Diesel Heater Glow Plug Repair Kit 12V/24V 1- 8KW

Video 2: This video showcases a diesel heater glow plug repair kit, specifically mentioning D2 compatibility. It illustrates various components that are part of a comprehensive repair, offering visual aid for understanding the system where the glow plug screen is installed.

6. Operating Principles

The glow plug screen is a critical component within the Eberspacher diesel heater's combustion chamber. Its primary function is to act as a fine mesh filter that surrounds the glow pin. When the heater starts, the glow pin heats up, and fuel is introduced onto the screen. The screen helps to atomize the fuel into a fine mist, which then vaporizes and ignites more efficiently due to the heat from the glow pin. This process ensures a clean and stable combustion, leading to effective heating and reduced emissions. A damaged or clogged screen can lead to poor starting, incomplete combustion, and excessive smoke.

7. Maintenance

Regular inspection and replacement of the glow plug screen are essential for maintaining the efficiency and reliability of your Eberspacher diesel heater. Over time, carbon deposits can accumulate on the screen, restricting airflow and fuel flow, which can lead to starting difficulties or reduced heating performance.

Maintenance Recommendations:

- **Periodic Inspection:** Inspect the glow plug screen during routine heater maintenance or if you notice any performance issues.
- **Replacement:** Replace the glow plug screen if it shows signs of damage, excessive carbon buildup that cannot be cleaned, or if the heater exhibits symptoms of poor combustion. The frequency of replacement depends on heater usage and fuel quality.
- **Cleaning:** Light carbon buildup can sometimes be carefully removed using a soft brush or compressed air, but ensure the screen's integrity is not compromised. If heavily clogged, replacement is recommended.

8. Troubleshooting

If your Eberspacher heater is experiencing issues after replacing the glow plug screen, consider the following common troubleshooting steps:

Common Issues and Solutions:

- **Heater Fails to Start:**
  - Ensure the glow plug screen is correctly seated and not damaged during installation.
  - Check electrical connections to the glow plug for looseness or corrosion.
  - Verify fuel supply and proper fuel pump operation.

- **Excessive Smoke or Odor:**
  - This can indicate incomplete combustion. Re-check the glow plug screen installation and ensure the burner area is clean.
  - Ensure correct fuel type is being used.
- **Reduced Heat Output:**
  - A partially clogged screen or improper combustion can reduce heat. Inspect the screen and burner.
  - Check for adequate airflow through the heater.

For persistent issues, consult the comprehensive service manual for your specific Eberspacher heater model or seek professional assistance.

9. Warranty and Support

Specific warranty information for the AIB2C 252069100102 Glow Plug Screen and Tool is not provided in the product details. For warranty claims, technical support, or further inquiries, please contact the manufacturer, AIB2C, directly through their official support channels or the retailer from whom the product was purchased.

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