

Generic GJ4-AL2710-LB2-6240

Instruction Manual: Mindray BC Series Blood Hemoglobin Stents HGB Spare Part

Model: GJ4-AL2710-LB2-6240 | Brand: Generic

INTRODUCTION

This manual provides essential information for the proper installation, function, and maintenance of the Mindray BC2100, BC2300, BC2600/2800/3000 Plus Blood Hemoglobin Stents HGB spare part. This component is designed to ensure accurate and reliable performance within compatible Mindray hematology analyzers. Please read these instructions carefully before proceeding with installation or use.

PRODUCT OVERVIEW



Figure 1: The Mindray BC Series Blood Hemoglobin Stents HGB spare part, showing the main cable assembly, two black plastic connectors, and a small metal pin with a ring, along with a rubber O-ring. This assembly is crucial for the hemoglobin measurement function of the analyzer.

The spare part is a specialized cable and sensor assembly integral to the hemoglobin detection pathway of Mindray BC series hematology analyzers. It facilitates the accurate detection and quantification of hemoglobin levels in blood samples. Proper functioning of this component is critical for the diagnostic capabilities of the analyzer.

SETUP AND INSTALLATION

Important: Installation should only be performed by qualified service personnel or trained technicians. Ensure the analyzer is powered off and disconnected from the main power supply before beginning any installation procedures.

1. **Preparation:** Power off the Mindray BC series analyzer and unplug it from the electrical outlet. Allow sufficient time for the instrument to cool down if it has been recently in operation.
2. **Access:** Carefully open the analyzer's casing or access panel to locate the existing hemoglobin stent/sensor assembly. Refer

to the specific service manual for your Mindray BC model for detailed access instructions.

- 3. **Removal of Old Part:** Disconnect the existing cable and sensor assembly. Note the orientation and connection points of all components. Carefully remove the old part, ensuring no damage to surrounding components.
- 4. **Installation of New Part:** Connect the new Mindray BC Series Blood Hemoglobin Stents HGB spare part. Ensure all connectors are securely seated and properly aligned. The image above (Figure 1) provides a visual reference for the components of the new part.
- 5. **Secure Components:** Ensure all cables are routed correctly and secured to prevent interference with moving parts or other components.
- 6. **Reassembly:** Close the analyzer's casing or access panel, ensuring all screws and fasteners are properly tightened.
- 7. **Power On and Test:** Reconnect the analyzer to the power supply and power it on. Perform a system self-test and calibration as per the analyzer's operational manual to confirm proper installation and functionality of the new part.

OPERATING PRINCIPLES

This spare part functions as a critical sensor and conduit within the hemoglobin detection pathway of the Mindray BC series hematology analyzer. It is responsible for transmitting signals related to the optical measurement of hemoglobin concentration. Once installed, its operation is integrated into the analyzer's automated testing cycles. No direct user interaction with this specific component is required during routine operation.

- Ensures accurate optical density readings for hemoglobin.
- Facilitates signal transmission to the analyzer's processing unit.
- Integral to the overall precision and reliability of blood analysis results.

MAINTENANCE

Regular maintenance of the analyzer, including components like the hemoglobin stent, is crucial for sustained performance and accuracy. While this specific spare part is generally maintenance-free once installed, adherence to the analyzer's overall maintenance schedule is recommended.

- **Cleaning:** Do not attempt to clean the internal components of this part directly. Any cleaning of the analyzer's fluidic system should be performed according to the manufacturer's guidelines using approved reagents.
- **Inspection:** During routine analyzer maintenance, visually inspect the accessible parts of the cable and connectors for any signs of wear, damage, or corrosion.
- **Replacement:** Replace the part if it shows signs of damage, or if the analyzer's hemoglobin measurements become consistently inaccurate despite calibration and other troubleshooting steps.

TROUBLESHOOTING

If issues arise after installing the new hemoglobin stent part, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Inaccurate HGB readings	Improper installation; air bubbles in fluidic path; damaged part; calibration issue.	Verify secure connections; perform system prime/flush; recalibrate analyzer; inspect part for damage and replace if necessary.
Analyzer error codes related to HGB	Loose connection; faulty part; issue with analyzer's main board.	Check all connections; re-install the part; if problem persists, contact qualified service personnel.

Problem	Possible Cause	Solution
No HGB readings	Part not connected; severe damage to part or analyzer.	Ensure part is fully connected; inspect for visible damage; consult analyzer service manual.

For persistent issues or complex problems, it is highly recommended to consult the Mindray BC series analyzer's comprehensive service manual or contact a certified service technician.

SPECIFICATIONS

- **Product Name:** Mindray BC2100 BC2300 BC2600/2800/3000 Plus Blood Hemoglobin Stents HGB Spare Part
- **Model Number:** GJ4-AL2710-LB2-6240
- **Brand:** Generic
- **Compatibility:** Mindray BC2100, BC2300, BC2600, BC2800, BC3000 Plus Hematology Analyzers
- **Color:** 3 categories of HGB (referring to the specific variant of the part)
- **Material:** Other (as per product specifications, likely a combination of plastics, metals, and wiring)
- **Connectivity Technology:** USB (as per product specifications, likely internal connection type)
- **Connectivity Protocol:** Wi-Fi (as per product specifications, likely refers to analyzer's overall connectivity, not the part itself)
- **Manufacturer:** GOODJOBHN
- **Part Number:** GJ4-AL2710-LB2-6240
- **Date First Available:** October 27, 2023

Note: Some specifications like "USB" and "Wi-Fi" connectivity may refer to the overall analyzer system capabilities rather than direct features of this specific internal spare part.


WARRANTY AND SUPPORT

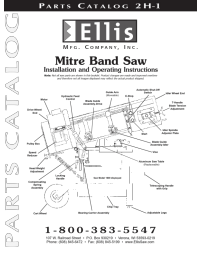



For warranty information regarding this spare part, please refer to the terms and conditions provided by the original seller or manufacturer at the time of purchase. As this is a generic spare part, warranty coverage may vary.

For technical support, installation assistance, or to report a defective part, please contact the vendor from whom you purchased this product. For issues related to the Mindray analyzer itself, please refer to the official Mindray support channels or your authorized Mindray service provider.

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Related Documents - GJ4-AL2710-LB2-6240

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