

Mahr AMR-12 2086960

Mahr AMR-12 Magnification Kit 2086960 Instruction Manual

Model: AMR-12 2086960

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1. INTRODUCTION

This manual provides essential information for the safe and effective use of the **Mahr AMR-12 Magnification Kit, model 2086960**. This kit is specifically designed for the calibration of pneumatic display units, ensuring accurate measurements in industrial and scientific applications. Please read this manual thoroughly before operating the device and retain it for future reference.



Figure 1: Mahr AMR-12 Magnification Kit, model 2086960, showing its primary components.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage to the device or injury to personnel, observe the following safety precautions:

- Always handle the magnification kit with care. It is a precision instrument.
- Do not expose the kit to extreme temperatures, humidity, or corrosive environments.
- Avoid dropping or subjecting the kit to strong impacts.
- Only use the kit for its intended purpose: the calibration of pneumatic display units.
- Keep the kit clean and free from dust and debris.
- Do not attempt to disassemble or modify the kit. Refer servicing to qualified personnel.

3. PACKAGE CONTENTS

The Mahr AMR-12 Magnification Kit, model 2086960, includes the following components:

- Magnification Kit components (as specified by Mahr)

Upon unpacking, inspect all items for any signs of damage. If any components are missing or damaged, contact your supplier immediately.

4. SETUP

Follow these steps to set up your Mahr AMR-12 Magnification Kit:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Inspect:** Visually inspect all parts for any damage that may have occurred during shipping.
3. **Environment:** Ensure the working environment is clean, stable, and free from vibrations. Maintain a consistent temperature and humidity as recommended for precision instruments.
4. **Assembly:** Assemble the magnification kit components according to the specific instructions provided with the kit's internal documentation (if applicable). Ensure all connections are secure.
5. **Preparation:** Prepare the pneumatic display unit that requires calibration according to its own instruction manual.

5. OPERATING INSTRUCTIONS

The Mahr AMR-12 Magnification Kit is designed for precise calibration. Follow these general operating procedures:

1. **Connection:** Connect the magnification kit to the pneumatic display unit as per the calibration procedure. Ensure a secure and leak-free connection.
2. **Calibration Procedure:** Follow the specific calibration steps outlined in the documentation for the pneumatic display unit and the magnification kit. This typically involves applying known pressure values and observing the display unit's readings through the magnification kit.
3. **Observation:** Use the magnification kit to accurately read the fine scales or indicators on the pneumatic display unit. The kit enhances visibility for precise measurement.
4. **Recording Data:** Record all calibration data meticulously.
5. **Disconnection:** After calibration, carefully disconnect the magnification kit from the pneumatic display unit.

Note: Specific calibration procedures may vary depending on the pneumatic display unit being calibrated. Always

refer to the primary instrument's manual for detailed steps.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Mahr AMR-12 Magnification Kit:

- **Cleaning:** Use a soft, lint-free cloth to clean the surfaces of the kit. For optical components, use specialized lens cleaning solutions and cloths to avoid scratching.
- **Storage:** Store the kit in its original packaging or a protective case when not in use. Keep it in a dry, dust-free environment with stable temperature.
- **Inspection:** Periodically inspect the kit for any signs of wear, damage, or loose components.
- **Calibration:** While the kit itself is a calibration aid, ensure it is handled with care to maintain its optical and mechanical integrity.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with the Mahr AMR-12 Magnification Kit:

Problem	Possible Cause	Solution
Unclear image/view through magnification kit	Dust or smudges on optical components; improper focus.	Clean optical surfaces with appropriate cleaning materials. Adjust the focus mechanism if available.
Kit components feel loose	Connections not fully tightened.	Gently tighten any adjustable connections. Do not overtighten.
Inaccurate calibration results	Improper setup; environmental factors; faulty pneumatic unit.	Review setup steps. Ensure stable environment. Verify the pneumatic display unit's condition. The magnification kit itself does not introduce inaccuracy if properly used.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, contact Mahr customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Mahr
Model Number	2086960
Manufacturer	Mahr GmbH
Product Dimensions (L x W x H)	50 x 21.6 x 19.7 cm
Item Weight	1 kilogram
Items in Package	1
Measurement Precision	+/-0.5%

Feature	Detail
Components Included	Magnification Kit
Batteries Required	No
ASIN	B07Z9CSWDK

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or spare parts availability for your Mahr AMR-12 Magnification Kit, please contact Mahr GmbH directly or your authorized Mahr distributor. Keep your purchase receipt and model number (2086960) handy when contacting support.

Note: Information regarding spare parts availability is currently unavailable.

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This manual is subject to change without notice.